

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A high-pressure discharge lamp with  
comprising:  
a discharge tube including electrodes;  
electrode lead-throughs connected to the electrodes;  
a reflector; and  
a cooling device, ~~characterized in that wherein~~ the cooling  
device comprises at least one pair of nozzles (7) which guide a  
cooling gas flow (8) onto portions of the electrode lead-throughs  
(6) of the discharge tube (3) so that the portions are more  
strongly cooled than further portions of the electrode lead-  
throughs.

2. (Currently Amended) A The discharge lamp as claimed in

claim 1, ~~characterized in that wherein~~ the pair of nozzles comprises two nozzles (7) which are passed through the reflector (2) at a mutual distance of less than 2 cm.

3. (Currently Amended) A The discharge lamp as claimed in claim 1, ~~characterized in that wherein~~ one or several nozzles (7) are arranged in front of the reflector (2).

4. (Currently Amended) A The discharge lamp as claimed in claim 1, ~~characterized in that wherein~~ one or several nozzles (7) are arranged in a neck of the reflector-neck.

5. (Currently Amended) A The discharge lamp as claimed in claim 1, ~~characterized in that wherein~~ the discharge tube (3) is surrounded by two sleeve sections (9) into which cooling gas flows (8) can be introduced from mutually opposed directions.

6. (Currently Amended) A The discharge lamp as claimed in claim 5, ~~characterized in that wherein~~ the sleeve sections (9) have a diameter which is 0.5 to 4 mm greater than that of the discharge

tube in the regions of the electrode lead-throughs ~~(6)~~.

7. (Currently Amended) ~~A~~ The discharge lamp as claimed in claim 1, ~~characterized in that wherein~~ the cooling power is controlled by a control unit so as to observe given operational parameters.

8. (Currently Amended) ~~A~~ The discharge lamp as claimed in claim 1, ~~characterized in that wherein~~ the nozzles have a diameter of approximately 0.5 to 2 mm.

9. (Currently Amended) ~~A~~ The discharge lamp as claimed in claim 1, ~~characterized in that it is connected to further~~ comprising a gas pressure source capable of generating a gas pressure of several hundreds of mbar in the nozzles.

10. (Currently Amended) A projection system with ~~a~~ the high-pressure discharge lamp as claimed in claim 1.

11. (New) The discharge lamp of claim 1, wherein the at least

one pair of nozzles directs the cooling gas flow substantially perpendicular to the portions without directing the cooling gas flow toward the further portions.

12. (New) The discharge lamp of claim 1, wherein the at least one pair of nozzles directs the cooling gas flow towards the portions in a direction forming an acute angle with the electrode lead-throughs, without directing the cooling gas flow toward the further portions.

13. (New) The discharge lamp of claim 1, wherein the at least one pair of nozzles directs the cooling gas flow in a direction forming an acute angle with the electrode lead-throughs.

14. (New) The discharge lamp of claim 1, wherein the at least one pair of nozzles is located on one side of the reflector to guide the cooling gas flow onto the portions of the electrode lead-throughs without directing the cooling gas flow toward the further portions.

15. (New) The discharge lamp of claim 1, wherein the at least one pair of nozzles is located on one side of the reflector to guide the cooling gas flow onto the portions of the electrode lead-throughs.